IN THE CLAIMS:

Please amend claims 1 and 3 and add claims 25-29. The current status of the claims is reflected in the below listing of claims.

1. (Currently amended) A halogenated amino acid analogue having the general formula:

wherein:

X is a radioactive halogen;

m is 0 or 1;

n is 0, 1, 2, 3, 4, 5, or 6;

R-is $(C_1 - C_6)$ alkyl optionally substituted with thioether or ether oxygen atom when n is 0_7 and

R is an aromatic ring, a heteroaromatic ring, or a substituted aromatic or heteroaromatic ring; and the X-(CH₂)_e-is a side chain on the ring when n is 1, 2, 3, 4, 5 or 6.

- 2. (Cancelled)
- 3. (Currently amended) A halogenated amino acid analogue having the general formula:

wherein:

X is a radioactive halogen;

m is 0 or 1;

n is 0, 1, 2, 3, 4, 5, or 6;

 $R-is-(C_1-C_6)-alkyl-optionally-substituted-with-thioether\\$ or ether oxygen atom when n is 0; and

R is phenyl, hydroxyphenyl, pyridyl, or hydroxypyridyl

when n is 1, 2, 3, 4, 5 or 6

- 4. (Cancelled)
- 5. (Previously amended) The analogue of claim 1, wherein the halogen is $^{\rm 18}{\rm F}.$
- 6. (Previously amended) The analogue of claim 1, wherein the halogen is $^{\rm 123}{\rm I}\,.$

Claims 7 - 8. (Cancelled)

9. (Original) The analogue of claim 1, wherein the analogue is selected from the group consisting of: [18F] labeled L,D-2-amino-3-(2-fluoromethyl-phenyl)-propionic acid; [18F] labeled L,D-2-amino-3-(3-fluoromethyl-phenyl)-propionic acid; [18F] labeled L.D-2-amino-3-(4-fluoromethyl-phenyl)-propionic acid: [18F] labeled L.D-2-amino-3-(2-fluoroethyl-phenyl)propionic acid; [18F] labeled L,D-2-amino-3-(3-fluoroethylphenyl)-propionic acid; [18F] labeled L,D-2-amino-3-(4fluoroethyl-phenyl)-propionic acid: [18F] labeled L.D-2-amino-3-(3-fluoromethyl-pyridin-2-yl)-propionic acid; [18F] labeled L.D-2-amino-3-(4-fluoromethyl-pyridin-2-yl)-propionic acid; [18F] labeled L, D-2-amino-3-(5-fluoromethyl-pyridin-2-yl)-propionic acid: [18F] labeled L.D-2-amino-3-(6-fluoromethyl-pyridin-2yl)-propionic acid; [18F] labeled L,D-2-amino-3-(3-fluoroethylpyridin-2-vl)-propionic acid; [18F] labeled L.D-2-amino-3-(4fluoroethyl-pyridin-2-yl)-propionic acid; [18F] labeled L,D-2amino-3-(5-fluoroethyl-pyridin-2-yl)-propionic acid; [18F] labeled L,D-2-amino-3-(6-fluoroethyl-pyridin-2-yl)-propionic acid: [18F] labeled L.D-2-amino-3-(2-fluoromethyl-4-hydroxyphenyl)-propionic acid; [18F] labeled L,D-2-amino-3-(5fluoromethyl-3-hydroxy-phenyl)-propionic acid; [18F] labeled L,D-2-amino-3-(6-fluoromethyl-3-hydroxy-phenyl)-propionic acid;

- [18F] labeled L,D-2-amino-3-(2-fluoroethyl-4-hydroxy-phenyl) propionic acid; [18F] labeled L,D-2-amino-3-(5-fluoroethyl-3-hydroxy-phenyl) propionic acid; [18F] labeled L,D-2-amino-3-(6-fluoroethyl-3-hydroxy-phenyl) propionic acid; [18F] labeled L,D-2-amino-3-(3-fluoromethyl-5-hydroxy-pyridin-2-yl) propionic acid; [18F] labeled L,D-2-amino-3-(3-fluoroethyl-5-hydroxy-pyridin-2-yl) propionic acid; [18F] labeled L,D-2-amino-3-(3-fluoromethyl-6-hydroxy-pyridin-2-yl) propionic acid; [18F] labeled L,D-2-amino-3-(4-fluoromethyl-6-hydroxy-pyridin-2-yl) propionic acid; [18F] labeled L,D-2-amino-3-(4-fluoroethyl-6-hydroxy-pyridin-2-yl) propionic acid; [18F] labeled L,D-2-amino-3-(4-fluoroethyl-6-hydroxy-pyridin-2-yl) propionic acid; [18F] labeled isoleucine; and [18F] labeled methionine.
- 10. (Original) A pharmaceutical composition comprising the analogue of claim 1 and at least one of an excipient, carrier and diluent.
- 11. (Original) The pharmaceutical composition of claim
 10, wherein the pharmaceutical composition is used as a tracer
 in at least one of Positron Emission Tomography (PET) and
 functional Magnetic Resonance Imaging (MRI).

Claims 12 - 24. (Cancelled)

the patient.

- 25. (New) A method for diagnosing a patient for the presence of tumors and/or metastases, the method comprising: administering a diagnostically effective amount of the analogue of claim 1 into the body of a patient; and visualizing localization of the analogue in the body of
 - 26. (New) The method of claim 25 wherein the visualizing

includes at least one of Positron Emission Tomography (PET) and functional Magnetic Resonance Imaging (MRI).

27. (New) A method for preparing the analogue of claim 1, the method comprising:

providing a precursor having the general formula $X-\left(CH_{2}\right)_{m}-R-\left(CH_{2}\right)_{m}-CH-COOH$

NH2

wherein:

X is a leaving group selected from the group consisting of tosyl, mesityl, triflate and a halogen; and

NH2 and COOH are protected; and

substituting a radioactive halogen for the leaving group of the precursor.

- 28. (New) The method of claim 27 wherein the substitution comprises aliphatic nucleophilic substitution of tosyl, mesityl, or triflate with radioactive fluorine.
- 29. (New) The method of claim 27 wherein the leaving group is a halogen, and the substitution comprises exchange of the leaving group with radioactive fluorine.